

Exhibit 1

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Economics Department
Stanford University
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Employment

Stanford University, Stanford, CA
Research Fellow, Stanford Institute for Economic Policy Research, 1997-
Lecturer in Economics and Public Policy, 1997-

Federal Communications Commission, Washington, DC
Deputy Chief Economist, 1995-1997
Acting Chief Economist, Common Carrier Bureau, 1996
Senior Economist, Office of Plans and Policy, 1994-1995

Law and Economics Consulting Group, Berkeley, CA
Senior Economist, 1990-1994

Economists Incorporated, Washington, DC
Economist/Research Associate, 1986-1988

Education

Stanford University, M.A., Ph. D., in Economics, Specialized in the fields of
Industrial Organization and Public Finance. 1986, 1994.

University of California, Berkeley, A.B. in Economics with Honors. 1984.

Papers and Publications

“An Economic Analysis of the Effects of FCC Regulation on Land Mobile
Radio,” unpublished Ph. D. dissertation, Stanford University. 1994.

“Competition in Local Telecommunications: Implications of Unbundling for
Antitrust Policy” in Brock, G., (ed.) Toward a Competitive Telecommunication
Industry: Selected Papers from the 1994 Telecommunications Policy Research
Conference, LEA Associates, Mahwah, NJ. 1995 (with Harris, R. and Teece, D.).

“Competition and 'Local' Communications: Innovation, Entry and Integration,”
Journal of Industrial and Corporate Change. 1995 (with Teece, D.).

"Spectrum Flexibility will Promote Competition and the Public Interest," *IEEE Communications Magazine*, December, 1995 pp 2-5. (with Hundt, R.).

"Interconnecting Interoperable Systems: The Regulators' Perspective." *Information, Infrastructure and Policy*. 1996 (with Katz, M., and Anspacher, J.).

"Everything You Need To Know About Spectrum Auctions, But Didn't Think To Ask," *Washington Telecom News*, Vol. 4, No. 5. February 5, 1996 p-5. (with Hundt, R.).

The Internet and Telecommunications Policy: Selected Papers from the 1995 Telecommunications Policy Research Conference, LEA Associates, Mahwah, NJ. 1996 (ed. with Brock, G.).

"Introduction," in Brock, G., and Rosston, G., (ed.s) (1996) The Internet and Telecommunications Policy: Selected Papers from the 1995 Telecommunications Policy Research Conference, LEA Associates, Mahwah, NJ. 1996 (with Brock, G.).

"Competition and 'Local' Communications: Innovation, Entry and Integration," in Noam, E., (ed.) The End of Territoriality in Communications: Globalism and Localism, Elsevier. 1997 (with Teece, D.).

"Using Market-Based Spectrum Policy to Promote the Public Interest," FCC Staff Paper, 1997. Also published in *Federal Communications Law Journal*, Vol. 50, No. 1. 1997 (with Steinberg, J.).

"A New Spectrum Policy: Letting the Market Work" *Radio Communication Reports*, March 3, 1997, pp 59-64.

"The Telecommunications Act Trilogy," *Media Law and Policy* . Vol V, No. 2 Winter 1997, pp 1-12. (<http://www.cmcnyls.edu/public/MLP/TrilgWeb.HTM>).

"Interconnection and Competition Policy," *Cable TV and New Media*. Vol XV, No. 3 May, 1997, pp 1-4.

"Pricing Principles to Advance Telephone Competition," *Cable TV and New Media*. Vol XV, No. 4 June, 1997, pp 1-3.

Interconnection and The Internet: Selected Papers from the 1996 Telecommunications Policy Research Conference, LEA Associates, Mahwah, NJ. 1997 (ed. with Waterman, D.).

“Introduction,” in Waterman, D., and Rosston, G., (ed.s) (1997) Interconnection and The Internet: Selected Papers from the 1996 Telecommunications Policy Research Conference, LEA Associates, Mahwah, NJ. 1997 (with Waterman, D.).

“Comment on the Value of New Services in Telecommunications” *Brookings Papers on Microeconomic Activity—Microeconomics*, 1997.

“On the Record: Former FCC Economist Backs Universal Service Alternative” *Telecommunications Reports*, Vol. 63, No. 51. December 22, 1997, pp 51-53.

“Universal Service Reform: An Economist’s Perspective,” *Cable TV and New Media*. Vol XV No. 11, January, 1998, pp 1-4.

"Alternative Paths to Broadband Deployment," *IEEE Communications Magazine*, July, 1998 pp 2-4. (with Hundt, R.).

"An Insiders' View of Auctions," Stanford Institute for Economic Policy Research Working Paper NO. 98-2, February, 1999 (with Kwerel, E.).

"The High Cost of Universal Service," *CCH Power and Telecom Law*, January-February 1999 (with Wimmer, B.).

"Effects of Unbundling Proposals on Cable Investment Incentives," *The Party Line, Newsletter of the Communications Industry Committee, American Bar Association Section of Antitrust Law*, March 1999 (with Owen. B.)

“The ABC’s of Universal Service: Arbitrage, Big Bucks and Competition,” Stanford Institute for Economic Policy Research Working Paper No. 98-4, April, 1999 (with Wimmer, B.).

“Winners and Losers from the Universal Service Subsidy Battle,” Working Paper, August, 1999 (with Wimmer, B.).

Other Professional Activities

Referee for *American Economic Review*, *Rand Journal of Economics*, *Industrial and Corporate Change*, *Journal of Industrial Economics*, *Telecommunication Systems*.

Reviewer, "Wireless Technologies and the National Information Infrastructure," Office of Technology Assessment, 1995.

Discussant for International Telecommunications Society Conference, "Spectrum Auctions," Boulder, CO, 1995.

Discussant for Telecommunications Policy Research Conference, "Empirical Studies of Productivity and Competitiveness in Telecommunications." 1995.

Session Chair, American Economic Association, Industrial Organization Society Meetings "Telecommunications Policy Issues in Local Exchange Services", 1996.

Discussant for Northwestern University Telecommunications Conference, May 1996.

Discussant for Brookings Papers on Microeconomic Activity, June, 1997.

Discussant for Telecommunications Policy Research Conference, "Universal Service." 1997.

Consultant for the World Bank, 1998.

Discussant for Telecommunications Policy Research Conference, "Auctions." 1998.

Awards

Chairman's Distinguished Service Award, FCC, 1997.

University of California, Brad King Award for Young Alumni Service, 1994.

National Performance Review Hammer Award for Reinventing Government, 1994.

Telecommunications Policy Research Conference Graduate Student Paper Competition, 2nd Place, 1994.

John M. Olin Foundation Fellowship, 1989-1990.

Charles Mills Gayley Fellowship, 1985.

Stanford University Fellowship, 1984-1985.

Appearances and Testimony

In re Rositano Enterprises, Inc. v. TAB Office Products, October, 1990.

In the Matter of Pacific Telecom, Inc. purchase of Anchorage Telephone Utility, July, 1991.

FCC Economist Panel Hearing on the Economics of Interconnection, May, 1996.

FCC Economist Panel Hearing on the Economics of BOC Entry under Section 271, July, 1996.

FCC Economist Panel Hearing on Competitive Bidding for Universal Service Provision, March, 1997

In re Application of MCI Telecommunications Corporation and Primestar LHC, Inc. for Consent to Assignment of Direct Broadcast Satellite Authorizations. FCC File No. 106-SAT-AL-97. October, 1997, February 1998, May 1998.

In the Matter of EchoStar Communications Corporation v. Fox/Liberty Networks, LLC and fX Networks, LLC. FCC File No. CSR-5165-P. January, 1998.

In re CTC Communications Corp. Complaint Against New England Telephone and Telegraph Company d/b/a Bell Atlantic-Maine. Maine Public Utilities Commission, Docket No. 98-208. July 1998.

“Cable Modems, Access and Investment Incentives,” with Bruce M. Owen, submitted to the Federal Communications Commission in CC Docket No. 98-146, December 1988.

In re CTC Communications Corp. v. Bell Atlantic, February, 1999.

“An Economic Analysis of the SBC-Ameritech Merger,” with Matthew Mercurio, April, 1999. (Prepared on behalf of the State Attorneys General of Wisconsin, Indiana, Missouri, Michigan and Illinois).

In re United States of America v. Motorola, Inc. and Nextel Communications, Inc., June, 1999.

FCC Academic Expert Panel on “A New FCC for the 21st Century,” June 1999.

In the Matter of Federal-State Joint Board on Universal Service: Forward-Looking Mechanism for High Cost Support for Non-rural LECs, CC Dockets No. 96-45 and 97-160, July, 1999.

Exhibit 2

Minimum Usage Requirements for Gas and Electric Companies by State

March 19, 1999

| State | City | Electric Provider | Minimum Monthly Residential Electric Service Charge | Gas Provider | Minimum Monthly Residential Gas Service Charge |
|--------------|---------------------|-----------------------------|--|-----------------------------|---|
| AL | <i>Birmingham</i> | ALABAMA POWER | \$8.71 | ALABAMA POWER | \$7.95 |
| AK | <i>Anchorage</i> | CHUGACH | \$6.25 | ALASKA INTRASTATE GAS CO | \$6.50 |
| AZ | <i>Tucson</i> | TUCSON ELECTRIC | \$5.00 | SOUTHWEST GAS CORP | \$7.00 |
| AR | <i>Little Rock</i> | ENTERGY ARKANSAS, INC | \$6.94 | ARKLA NORAM ENERGY CORP. | \$5.20 |
| CA | <i>San Diego</i> | SAN DIEGO GAS & ELECTRIC | \$5.10 | SAN DIEGO GAS & ELECTRIC | \$5.00 |
| CO | <i>Denver</i> | PUBLIC SERVICE OF COLORADO | \$6.60 | PUBLIC SERVICE OF COLORADO | \$7.00 |
| CT | <i>Bridgeport</i> | THE UNITED ILLUMINATING CO | \$9.50 | CONNECTICUT NATURAL GAS | \$8.10 |
| DE | <i>Georgetown</i> | DELMARVA POWER | \$5.30 | DELMARVA POWER | \$6.50 |
| FL | <i>Tampa</i> | TAMPA ELECTRIC CO | \$8.50 | PEOPLES GAS SYSTEM | \$7.00 |
| GA | <i>Austell</i> | GEORGIA POWER | \$7.50 | AUSTELL GAS SYSTEM | \$9.45 |
| HI | <i>Honolulu</i> | HAWIIAN ELECTRIC CO | \$16.00 | GASCO INC. | \$8.50 |
| ID | <i>Boise</i> | IDAHO POWER | \$2.50 | INTERMOUNTAIN GAS CO | \$5.75 |
| IL | <i>Deer Creek</i> | CENTRAL ILLINOIS LIGHT CO | \$3.63 | CENTRAL ILLINOIS LIGHT CO | \$9.95 |
| IN | <i>Jefferson</i> | INDIANA MICHIGAN POWER | \$6.65 | INDIANA GAS | \$9.00 |
| IA | <i>Cedar Rapids</i> | IOWA ELECTRIC LIGHT & POWER | \$8.88 | IOWA ELECTRIC LIGHT & POWER | \$7.15 |
| KS | <i>Blue Rapids</i> | KANSAS CITY POWER & LIGHT | \$5.97 | KANSAS CITY POWER & LIGHT | \$6.20 |
| KY | <i>Louisville</i> | LOUISVILLE GAS & ELECTRIC | \$3.29 | LOUISVILLE GAS & ELECTRIC | \$3.29 |

**Minimum Usage Requirements for
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**Exhibit 2
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| State | City | Electric Provider | Minimum Monthly Residential Electric Service Charge | Gas Provider | Minimum Monthly Residential Gas Service Charge |
|--------------|--------------------|--------------------------------------|--|--------------------------------------|---|
| LA | <i>Shreveport</i> | SOUTHWESTERN ELEC PWR CO | \$4.00 | ARKLA NORAM ENERGY CORP. | \$8.00 |
| ME | <i>Bangor</i> | BANGOR HYDRO-ELECTRIC COMPANY | \$14.03 | N/A | N/A |
| MD | <i>Baltimore</i> | BALTIMORE GAS & ELECTRIC | \$4.50 | BALTIMORE GAS & ELECTRIC | \$12.00 |
| MA | <i>Boston</i> | BOSTON EDISON | \$6.43 | BOSTON EDISON | \$9.71 |
| MI | <i>Ann Arbor</i> | DETROIT EDISON | \$6.14 | MICHIGAN CONSOLIDATED GAS | \$6.50 |
| MN | <i>St. Cloud</i> | NORTHERN STATES POWER CO | \$4.50 | NORTHERN STATES POWER CO | \$6.00 |
| MS | <i>Jackson</i> | MISSISSIPPI POWER & LIGHT | \$3.96 | MISSISSIPPI VALLEY GAS CO | \$7.71 |
| MO | <i>Troy</i> | UNION ELECTRIC COMPANY ELCTRIC CO | \$5.75 | UNION ELECTRIC COMPANY ELCTRIC CO | \$8.12 |
| MT | <i>Butte</i> | MONTANA POWER | \$4.20 | MONTANA POWER | \$5.20 |
| NE | <i>Lincoln</i> | LINCOLN ELECTRIC SYSTEM | \$6.00 | PEOPLES NATURAL GAS CO. | \$6.85 |
| NV | <i>Las Vegas</i> | NEVADA POWER CORP | \$5.00 | SOUTHWEST GAS CORP | \$6.00 |
| NH | <i>Exeter</i> | EXETER HAMPTON ELECTRIC CO | \$7.00 | NORTHERN UTILITIES, INC | \$6.87 |
| NJ | <i>Newark</i> | PUBLIC SERVICE ELEC & GAS | \$2.27 | PUBLIC SERVICE ELEC & GAS | \$5.46 |
| NM | <i>Albuquerque</i> | PUBLIC SERVICE COMPANY OF NEW MEXICO | \$3.00 | PUBLIC SERVICE COMPANY OF NEW MEXICO | \$9.00 |
| NY | <i>Buffalo</i> | NIAGARA MOHAWK | \$9.79 | NATIONAL FUEL GAS DISTRIBUTION CORP | \$14.18 |
| NC | <i>Charlotte</i> | DUKE POWER | \$7.87 | PIEDMONT NATURAL GAS | \$8.00 |

**Minimum Usage Requirements for
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**Exhibit 2
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| State | City | Electric Provider | Minimum Monthly Residential Electric Service Charge | Gas Provider | Minimum Monthly Residential Gas Service Charge |
|--------------|----------------------|----------------------------------|--|----------------------------------|---|
| ND | <i>Fargo</i> | NORTHERN STATES POWER CO | \$4.00 | NORTHERN STATES POWER CO | \$5.00 |
| OH | <i>Cincinnati</i> | CINCINNATI GAS & ELECTRIC CO | \$4.00 | CINCINNATI GAS & ELECTRIC CO | \$5.24 |
| OK | <i>Oklahoma City</i> | OKLAHOMA GAS & ELECTRIC CO | \$6.50 | ARKLA | \$6.50 |
| OR | <i>Portland</i> | PORTLAND GENERAL ELECTRIC CO | \$5.50 | NORTHWEST GAS CO | \$4.00 |
| PA | <i>Philadelphia</i> | PECO ENERGY | \$5.10 | PECO ENERGY | \$7.58 |
| RI | <i>Providence</i> | NARRAGANSETT ELECTRIC CO | \$2.54 | PROVIDENCE GAS CO. | \$8.00 |
| SC | <i>Columbia</i> | SOUTH CAROLINA ELEC & GAS | \$6.50 | SOUTH CAROLINA ELEC & GAS | \$3.00 |
| SD | <i>Sioux Falls</i> | NORTHERN STATES POWER CO | \$6.55 | N/A | N/A |
| TN | <i>Memphis</i> | MEMPHIS LIGHT GAS & WATER | \$5.43 | MEMPHIS LIGHT GAS & WATER | \$3.40 |
| TX | <i>San Antonio</i> | SAN ANTONIO PUBLIC SERVICE BOARD | \$4.25 | SAN ANTONIO PUBLIC SERVICE BOARD | \$3.85 |
| UT | <i>Orem</i> | UTAH POWER & LIGHT | \$3.75 | QUESTAR GAS CO. | \$7.50 |
| VT | <i>Essex</i> | GREEN MOUNTAIN POWER CORP. | \$10.18 | N/A | N/A |
| VA | <i>Alexandria</i> | VIRGINIA ELECTRIC POWER CO. | \$7.00 | VIRGINIA NATURAL GAS | \$9.90 |
| WA | <i>Seattle</i> | SEATTLE CITY LIGHT | \$2.92 | CASCADE NATURAL GAS CORP. | \$4.00 |
| WV | <i>Frankford</i> | WEST VIRGINIA POWER | \$8.50 | WEST VIRGINIA POWER | \$5.00 |

**Minimum Usage Requirements for
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**Exhibit 2
Page 4 of 4**

| State | City | Electric Provider | Minimum Monthly Residential Electric Service Charge | Gas Provider | Minimum Monthly Residential Gas Service Charge |
|--------------|------------------|------------------------------------|--|------------------------------------|---|
| WI | <i>Green Bay</i> | WISCONSIN PUBLIC SERVICE | \$5.50 | WISCONSIN PUBLIC SERVICE | \$4.50 |
| WY | <i>Cheyenne</i> | CHEYENNE LIGHT FUEL & POWER CO. | \$6.50 | CHEYENNE LIGHT FUEL & POWER CO. | \$9.00 |